**MODIS Technical Team Meeting**
**Friday, February 15, 2001**
**3:00 PM**

Vince Salomonson chaired the meeting. Present were Steve Kempler, Bruce Ramsay, Dorothy Hall, Mark Domen, Bruce Guenther, Bill Barnes, Ed Masuoka, Sol Broder, Chris Justice, and Barbara Conboy, with Rebecca Lindsey taking the minutes.

## 1.0 Schedule of Upcoming Events

· Terra Cloud Mask Conference May 8-9, 2001
University of Wisconsin-Madison

## 2.0 Meeting Minutes

2.1 Instrument Update (Aqua MODIS)

Domen reported that the failsafe for the space view door that malfunctioned was replaced with a spare. The instrument is now waiting for the spacecraft. Launch is unlikely in July, and they are now looking at September/October. One issue with the spacecraft is whether Aqua meets the fuel and thruster specifications for safe ocean disposal.

2.2 General Discussion

Barnes asked Masuoka about providing input to a questionnaire from DoD that Ken Anderson is filling out for Salomonson.

2.3 GES DAAC Update

Kempler reported that the GES DAAC finished processing another full week of data, through day 34. They are still waiting for some missing L0 data from EDOS, but some data is likely unrecoverable. They have filled many special requests, including some for rapid response (flooding and the Galapagos oil spill) and granules for Dr. Wan's calibration activities.

He reported that they had received a request for the snow/ice algorithm from some researchers in Scotland. They had decided that the scientists would have to wait until the algorithm is publicly available. Hall agreed with this decision.

They are continuing to investigate data movement between the DAAC and MODAPS to track down some recent problems. They believe that the problem could be related to multiple special requests.

## 2.4 MODAPS Update

They are finishing the week ending with day 352. So, production is about 48 days behind the DAAC (or about 60 days behind real time.) They are thinking about splitting processing—doing a day back and a day in the future. Until they get V2, they won't do better than 1.25x. Another system, which is on order, will raise the production numbers.

Masuoka reported that for MOSS 2 tests, which they were planning to skip entirely, they will be doing a limited amount of testing to check the insertion of PGEs. The commitment will be about 2 hours, but not several days. Masuoka also reported that most PGEs have been converted to V2 MODAPS.

## 2.5 Land

Vermote reported that he feels the weekly sensor discussion with MCST is going to be very useful. Justice asked the team let him know when they will be able to get their articles in for the special issue of the *Remote Sensing of the Environment*.

## 2.6 Cryosphere Update

Hall reported that, based on a meeting with Andrew Klein, they will be able to release a beta version of the snow and sea ice albedo product soon. It still has to be turned into production code, but after that, they will be able to release the product to the public.

Salomonson reported that Jacques Descloitres explained to him that the land browse product, which was discussed at last week's meeting as a potential starting point for model inputs, is, in effect, a maximum snow cover product. If a single pixel within a grid box is snow, then the whole box is called snow.

## 2.7 NOAA/NESDIS Update

Ramsay reported that the National Climatic Data Center (NCDC), NOAA/NESDIS, has been working with and has been funded by NASA to develope a prototype EOS Long Term Archive. One of the current objectives is to transmit several MODIS data sets to the Satellite Active Archive (SAA), and then to NCDC. The SAA (http://www.saa.noaa.gov) is a digital library of real-time and historical satellite data from NOAA's Polar-orbiting Operational Environmental Satellites. This test will help determine the data communications capability required to make this archive work. NOAA/NESDIS Product Oversight Panels, organizations composed of research and operations personnel, are being solicited for input as to specific MODIS products to be used in the test. A definitive list of MODIS products to be used in the test will be provided at the next MODIS Technical Team meeting.

While inquiring about obtaining software for production of MODIS snow and ice products, Ramsay was informed by Justice that the Land team is producing an experimental rapid response fire product. NESDIS was recently funded to develop and

implement an operational demonstration of a U.S. fire detection and monitoring system that makes use of multiple sensor inputs from GOES, AVHRR, DMSP-OLS, and smoke transport dispersion models. The output of this system will be used by the National Weather Service and the U.S. Forest Service starting in the approaching North America fire season, summer 2001. The land team's product is fully compatible with the NESDIS effort, and Justice and Ramsay will continue to work together to determine the best means of using the rapid response fire product within NOAA.

2.8 Other Issues

Now that the 250-m production is being transitioned to MODAPS, SDST is suggesting that the system's resources be tied into EDOS so that the system could function as a rapid response production system. Masuoka reported that a CCR had been submitted to ESDIS on the plan. If the plan is approved, the team will have to address the bit flip issue as the data will be pulled from EDOS before they are run through the existing bit-flip patch.

## 3.0 Action Items

Action Items Carried Forward

3.1 Masuoka to update a chart that has quantifiable information about how much processing resources are being used for current production. (King requested actual FLOPS).

Status: Open.

3.2 Discipline leads to meet to resolve the issue of beta-release code and science-quality code, and what we need to say about it.

Status: Open.

3.3 King to inquire about a written request from Graeme Stephens about what MODIS data they would like to have for the CloudSat project.

Status: Closed. King requested this information from Stephens, who reported that request should be ready in early March. King will continue to work with Stephens to get the necessary information.

3.4 Masuoka to send Mark Gray a copy of the code-porting guide for MODAPS's transition to Linux.